AD-A216 860

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE Mar 84	3. REPORT TYPE AND DATES COVERED Final (1-2-83/31-1-84

4. TITLE AND SUBTITLE "PROGRESS IN RESEARCH ON KNOWLEDGE DELIVERY)	5. FUNDING NUMBERS 61102F 2304/A7

6. AUTHOR(S)
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7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) University of Southern California Information Sciences Institute University Park, Los Angeles CA 90089	8. PERFORMING ORGANIZATION REPORT NUMBER AFOSR-TR- 89-1535

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) AFOSR BLDG 410 BAFB DC 20332-6448	10. SPONSORING/MONITORING AGENCY REPORT NUMBER F49620-79-C-0181

11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited.	12b. DISTRIBUTION CODE

13. ABSTRACT (Maximum 200 words)

Single quotes

Research under the contract during this period resulted in the following papers, "Two discourse generators," "The Anatomy of a Systemic Choice," "An overview of the Penman text generation system," "An introduction to the Nigel text generation grammar," "Nigel: A Systemic Grammar for Text Generation," "A demonstration of the Nigel text generation computer program," "A grammar and a lexicon for a text-production system," and "The systemic framework in text generation: Nigel."

Keywords: Computers, Computer Languages. (AW)

DTIC
ELECTE
DEC 0 6 1989
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14. SUBJECT TERMS	15. NUMBER OF PAGES 2
	16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT

NSN 7540-01-280-5500

Standard Form 298 (890104 Draft)
Prescribed by ANSI Std. 239-18
298-01

89 12 04 172

AFOSR·TR· 89·1535

PROGRESS IN RESEARCH ON KNOWLEDGE DELIVERY

William C. Mann
USC/ISI

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Unannounced		☐
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Distribution /		
Availability Codes		
Dist	Avail and / or Special	
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Progress in Research on Knowledge Delivery

William C. Mann
USC Information Sciences Institute

This report describes the progress of the Knowledge Delivery Research project during the contract period ending 31 January 1983.

During the reporting period, the following papers were issued in project reports: [Mann 81, Matthiessen 81, Mann 82]. The first two were presented at a conference of the Association for Computational Linguistics, and the latter has been accepted for publication by the journal Discourse Processes.

In addition, research and writing was done which eventually led to creation of the following reports: [Mann & Matthiessen 3.a, Mann 83a].

The first of these is actually a compendium of three technical papers: [Mann 83b, Mann & Matthiessen 3.b, Matthiessen 3.]. All three of these have been accepted for publication in a forthcoming book. For details see the references section below.

The second of these appeared in the proceedings of the 1983 AAAI conference.

Together, these are a very comprehensive representation of the progress of the project. All have been submitted to AFOSR for contract purposes, and to DDC for public availability. For additional detail on the progress of the project, see these reports.

References

[Mann 81] Mann, W. C., "Two discourse generators," in *The Nineteenth Annual Meeting of the Association for Computational Linguistics*, Sperry Univac, 1981.

[Mann 82] Mann, W. C., *The Anatomy of a Systemic Choice*, USC/Information Sciences Institute, Marina del Rey, CA, Technical Report RR-82-104, October 1982. To appear in *Discourse Processes*.

[Mann 83a] Mann, W. C., "An overview of the Penman text generation system," in *Proceedings of the National Conference on Artificial Intelligence*, pp. 261-265, AAAI, August 1983. Also appears as USC/Information Sciences Institute, RR-83-114.

[Mann 83b] Mann, W. C., "An introduction to the Nigel text generation grammar," in *Nigel: A Systemic Grammar for Text Generation*, USC/Information Sciences Institute, RR-83-105, February 1983. This paper will also appear in a forthcoming volume of the *Advances in Discourse Processes Series*, R. Freedle (ed.): *Systemic Perspectives on Discourse: Selected Theoretical Papers from the 9th International Systemic Workshop* to be published by Ablex.

[Mann & Matthiessen 3.a] Mann, W. C., and C. M. I. M. Matthiessen, *Nigel: A Systemic Grammar for Text Generation*, USC/Information Sciences Institute, RR-83-105, February 1983. The papers in this report will also appear in a forthcoming volume of the *Advances in Discourse Processes Series*, R. Freedle (ed.): *Systemic Perspectives on Discourse: Selected Theoretical Papers from the 9th International Systemic Workshop*, to be published by Ablex.

[Mann & Matthiessen 3.b] Mann, W. C., and C. M. I. M. Matthiessen, "A demonstration of the Nigel text generation computer program," in *Nigel: A Systemic Grammar for Text Generation*, USC/Information Sciences Institute, RR-83-105, February 1983. This paper will also appear in a forthcoming volume of the *Advances in Discourse Processes Series*, R. Freedle (ed.): *Systemic Perspectives on Discourse: Selected Theoretical Papers from the 9th International Systemic Workshop* to be published by Ablex.

[Matthiessen 81] Matthiessen, C. M. I. M., "A grammar and a lexicon for a text-production system," in *The Nineteenth Annual Meeting of the Association for Computational Linguistics*, Sperry Univac, 1981.

[Matthiessen 3.] Matthiessen, C. M. I. M., "The systemic framework in text generation: Nigel," in *Nigel: A Systemic Grammar for Text Generation*, USC/Information Sciences Institute, RR-83-105, February 1983. This paper will also appear in a forthcoming volume of the *Advances in Discourse Processes Series*, R. Freedle (ed.): *Systemic Perspectives on Discourse: Selected Theoretical Papers from the 9th International Systemic Workshop* to be published by Ablex.